Replacement Abstract

A branch aware first-in first-out (FIFO) memory may include a memory array to store data; a push pointer to address memory locations therein to write data; a pop pointer to address memory locations therein to read data; a pointer memory; and control logic coupled to the pointer memory. The pointer memory saves prior pop pointer values of the pop pointer. The control logic may restore prior pop pointer values from the pointer memory into the pop pointer in response to receiving program branching information.

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